

IN THE CLAIMS

This is a complete and current listing of the claims, marked with status identifiers in parentheses. The following listing of claims will replace all prior versions and listings of claims in the application.

1. A system in connection with a cold-storage/ freezer space (1), said cold-storage/freezer space (1) comprising at least one door (2) with at least two transparent sheets (3), a conductive layer being placed on one of the sheets (3) to function as a heating element to keep said sheets (3) free of condensation, the system comprising a moisture sensor (6) and a temperature sensor (5) on the side which is warm when using the cold-storage/freezer space (1), said sensors (5, 6) being connected to a control unit (7), said control unit (7) regulating the supply of power to said conductive layer, ~~characterized in that~~ wherein

the system also comprises a second temperature sensor (4) in said cold-storage/freezer space (1), i.e. on the side which is cold when using the cold-storage/ freezer space (1), said second temperature sensor (4) being connected to said control unit (7).

2. A system as claimed in claim 1, in which said control unit (7) is arranged in the doorframe.

3. A system as claimed in claim 1, in which said control unit (7) is a separate unit arranged separately from said door (2).

4. A system as claimed in ~~any one of the preceding claims 1~~, in which the control unit (7) is programmed to keep the surface temperature on the outside of the sheet (3) on the warm side above the dew point of the ambient air.

5. A system as claimed in claim 4, into which an experience curve is programmed.

6. A system as claimed in ~~any one of the preceding claims 1~~, in which a plug interface is connected to the control unit (7) to allow reprogramming.

7. A system as claimed in ~~any one of the preceding claims 1~~, in which said second temperature sensor (4) is arranged in the upper part of the doorframe.

8. A system as claimed in ~~any one of the preceding claims~~ 1, in which light-emitting diodes are arranged to indicate the operating status of the system.

9. A system as claimed in ~~any one of the preceding claims~~ 1, to which a change-over switch is connected to allow use of the same system for different types of doors ~~(2)~~ and operating conditions.

10. A system as claimed in ~~any one of the preceding claims~~ 1, in which said transparent sheet ~~(3)~~ is a sheet of glass.